

## Biodiversity Studies in Costa Rica



See page 3 for more information on this International Studies opportunity.

## ANNOUNCEMENTS

BIOL majors **Andrea Quitugua** and **Hannah Ennerfelt** have each been awarded a STEM scholarship from the Henson School of Science! The STEM scholarship is a \$5,000 per year award (\$2,500 per semester) and is renewable for one more year contingent upon the student maintaining a cumulative GPA at 3.3 or above and good progress towards a degree. Congratulations Andrea and Hannah!

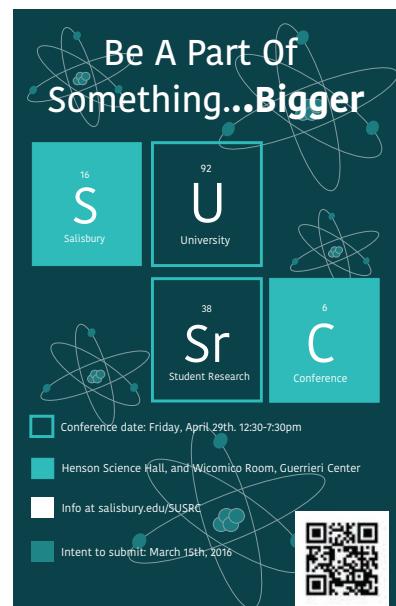
### Salisbury University Student Research Conference (SUSRC) - Friday, April 29, 2016

The SUSRC committee announces the 15th annual SUSRC on Friday, April 29, 2016. Presentations are organized into themed sessions for all majors. The conference culminates in a poster reception.

#### The submission process involves three required steps:

(1) the deadline for a student to submit her or his intent to present is March 15; (2) the faculty mentor must approve the student's work; (3) the deadline to submit final abstracts is Friday, April 1, 2016, by midnight. For more information visit

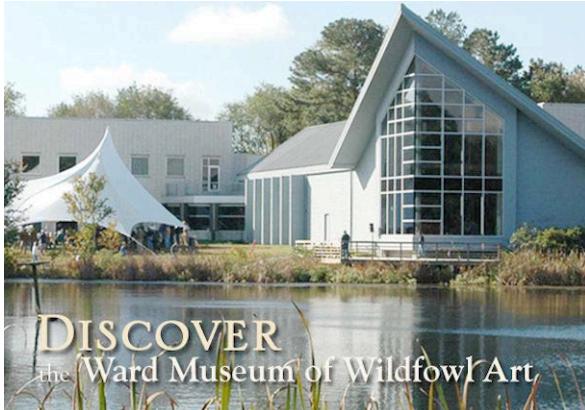
<http://www.salisbury.edu/susrc>.



**Biology Seminar Series – Spring 2016 schedule.**  
[http://faculty.salisbury.edu/~kxhunter/biology\\_seminars.html](http://faculty.salisbury.edu/~kxhunter/biology_seminars.html)

**Explore the Ward Museum of Wildfowl Art**

[www.wardmuseum.org](http://www.wardmuseum.org)



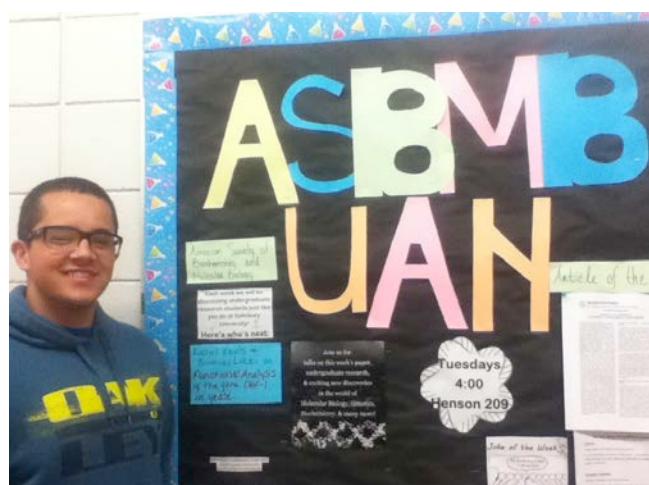
**American Society for Biochemistry and Molecular Biology**

The ASBMB student chapter (<http://asbmb.org/education/studentchapters/>) meets Tuesdays at 4 pm in HS209 to discuss current topics in molecular biology, genetics, cell biology, biochemistry and even a touch of microbiology. Members doing research share their interests and projects, all while enjoying tasty snacks.

Everyone is invited to the meetings. If you are interested in joining the discussions or have a great idea about a potential topic or paper, contact the group's president, Jenn Krieck ([jkrieck1@gulls.salsisbury.edu](mailto:jkrieck1@gulls.salsisbury.edu)). If you would like to benefit from 'official' membership in the chapter, including a periodical from the national organization and funding opportunities, contact Dr. Patti Erickson ([pterickson@salisbury.edu](mailto:pterickson@salisbury.edu)).



**ASMBM Fall 2015 Bake Sale**  
**Mike Robben and Dr. Philip Anderson**



**Josh LaMora**

### BioEnvirons Club

The BioEnvirons Club recently donated their proceeds from a fall 2015 bake sale, to the Shore Wildlife Rehab, a wildlife sanctuary housed in Jamesville, VA.

Shown right are **Caitlin Nicodemi** (President) and **Katherine Pauer** (Vice President).



### Biodiversity Studies – Winter 2016

Adjunct Instructor Mary Gunther and Dr. Eric Liebgold both held classes in Costa Rica during Winter term 2016. The two classes traveled together and participated in many of the same activities while also having sessions unique to their courses. Ms. Gunther's class focused on the economic impact of ecotourism and the relationship to a country's biodiversity. Dr. Liebgold's class focused on tropical biodiversity of several different biomes. Activities included hikes and boat trips in national parks – on land and at sea, a class on the history of chocolate, zip-lining, kayaking, walks on suspension bridges; visits to banana and coffee plantations, a hike to view the Continental Divide, bird watching, night hikes, camera trapping and snorkeling. Both classes learned a lot and had a fun time in the warm tropics as well!





# Atlantic White Cedar TREE PLANTING

Nassawango Creek Preserve | Snow Hill, MD



**SATURDAY,  
MARCH 19, 2016**

Join the National Aquarium Conservation Team (ACT!) as we partner with the Nature Conservancy and the Chesapeake Bay Trust to restore Atlantic white cedar habitat in Nassawango Creek Preserve. The 15-square-mile preserve, comprising wetland and upland habitat, is home to 60 species of migratory birds and a number of rare plant species.

**REGISTER TODAY TO HELP PLANT  
SEEDLINGS AND RESTORE HABITAT!**

This planting is part of an ongoing restoration effort through the Aquarium's Wetland Nursery Program, in which students form a more meaningful connection with local habitat by raising native wetland plants and transplanting them to local wetland restoration sites.

*All participants must pre-register. Minimum age is 10 years old, and anyone under 18 years old must be accompanied by an adult. This event is rain or shine, so please dress for the weather.*

[aqua.org/bay](http://aqua.org/bay)

Please contact Stephanie Mathias at [conserve@aqua.org](mailto:conserve@aqua.org) or **410-576-1014** for registration information and event details.

 **NATIONAL AQUARIUM**®



## OPPORTUNITIES



### POSITION DESCRIPTION

#### ***Science and Restoration Internships for Summer 2016***

The Delaware Center for the Inland Bays, a National Estuary Program, invites applications for two paid internship positions in our Science and Restoration program for the summer of 2016. Application is open to current students studying estuarine science, marine science, biology or other related fields. Interns will be engaged in a combination of field and office work in applied science and restoration techniques related to the CIB's Comprehensive Conservation and Management Plan:

<http://www.inlandbays.org/wp-content/documents/Final%209-27-12%20CIB%20CCMP.pdf>

The Center is a private non-profit organization located at the Indian River Inlet in Delaware Seashore State Park near Rehoboth Beach, Delaware. Visit [www.inlandbays.org](http://www.inlandbays.org) for more information.

#### **Environmental Science and Habitat Restoration Intern**

The Environmental Science and Habitat Restorations Interns will report to CIB's Science and Restoration Coordinator through the Program Manager and/or Environmental Scientist to provide field and office support for science and restoration programs, including water quality monitoring, living shoreline and wetland projects, and natural resource surveys. Duties may include, but not be limited to, data entry and analysis, collection of water quality data, maintenance of monitoring equipment, assistance with citizen science surveys (horseshoe crabs, fish, aquatic vegetation and other resources) basic land management and conservation tasks, tree planting and natural resource surveys, assistance with oyster shell recycling and oyster gardening programs, monitoring and maintenance of field sites and environmental projects (including Living Shorelines) and assistance with outreach and public events.

#### Requirements:

- Current enrollment in a college or university program of natural sciences
- Availability from approximately June 1 until August 15, 2016
- Ability to lift up to 25 pounds and work outdoors for extended periods in an estuarine environment
- Basic computer skills (Word, Excel, PowerPoint); GIS and data analysis skills a plus
- Possess a valid driver's license with a good driving record
- Boat operation experience and boaters safety course are a plus
- Applicants must be eligible to work legally in the United States.

Work hours are generally 8AM to 4PM, Monday through Friday. There will be some requirement for occasional weekend and/or evening availability. Salary is \$9.00/hour; no fringe benefits are offered.

#### **Application**

Interested applicants should submit a cover letter and resume (via US Mail or electronic mail) by Friday, March 18, 2016 to:

Mr. Bob Collins, Program Manager  
Delaware Center for the Inland Bays  
39375 Inlet Road  
Rehoboth Beach, DE 19971  
[jamesfarm@inlandbays.org](mailto:jamesfarm@inlandbays.org)

Please include in your cover letter the names and contact information for two references, as well as your dates of availability for the position.

*The Delaware Center for the Inland Bays, in its delivery of services and hiring practices, will not discriminate against any individual based upon race, color, national origin, sex, religion, age, disability, political belief, sexual orientation, gender identity, veteran or military status, genetic information and marital or familial status.*

# SEPELA Field Programs

## Study Abroad in Africa

Spend up to 4 weeks living and working in the field with fellow students while learning practical skills from experienced instructors. Sepela proudly boasts one of the longest running field primatology courses, and is the only field course program that offers Wilderness First Aid training and certification. Contact us today and ask how you can earn course credit while experiencing African wildlife and culture.

## Do something unforgettable



**Spots still available for:**

Field Primatology

22 Jun-18 Jul (incl. Wilderness First Aid)

Field Photography

27 Jul-17 Aug (incl. Wilderness First Aid)

[www.sepela.org](http://www.sepela.org)  
[info@sepela.org](mailto:info@sepela.org)





Hoopers Island Oyster Aquaculture Company in Fishing Creek, MD is accepting applications for an Aquaculture internship. This is an excellent opportunity for college students and young college graduates to garner hands-on experience and learn the aquaculture process from start to finish, with a biological approach. Internship dates are flexible, but ideal time frame is May-September 2016. Interns will be paid, however housing is not provided. Applicants must be hard working, inclined to working as a team, and able to perform manual labor outdoors. A background in biology or marine science is not required, but it is strongly encouraged. It should be noted that the intern selected would also be spending time at Phillips Wharf Environmental Center on Tilghman Island, MD, working with the aquaculture program at that facility.

*Interns will be trained to a level of proficiency in the following skill areas:*

- Algae culture
- Broodstock conditioning
- Triploid and Diploid spawning
- Larval setting
- Nursery grow-out
- Australian Longline grow-out
- Farm management
- Experimental design

**For more information, or to apply, please send resume, cover letter, and references to Jordan Shockley ([jordan@hioac.com](mailto:jordan@hioac.com)).**

**OPPORTUNITIES cont.**

Recruiting Group: Toni Group, LLC.

For more information contact:

**Beth Everett Executive Recruiter Toni Group, LLC 443.350.9097 Direct 443.850.8993 Cell**

**Medical Assistant position within walking distance of GW University**

Must be able to commit to two years of employment. A small Ophthalmology office seeks a Bachelor's degree graduate to work as a Medical Assistant. One must have graduated from an accredited school with at least a 3.0 GPA. One must be extremely motivated, polished, intelligent and friendly. We seek someone who wants to go back to school to become a Physician Assistant or Physician. We will train you in front and back office. Hours: 4 days a week, 8:30am-6:30pm; Salary: 40 hours a week ; Pay: \$16 and hour Duties include: Phones, Scheduling, Triage, Visual Field Testing, Ophthalmology photography, Assist Physician in minor procedures, Contact lens education, Administer Eye Drops, Check Vision, and Check patients in/out.

**Medical Assistant with a Pain Management and Spinal facility in Reston, VA**

Must be able to commit to two years of employment. The Medical Assistant will assist the providers with many aspects of patient care, including office visits, injections, writing orders, and patient education.

Essential Job Responsibilities:

- Assist physicians and physician assistants with preparing patients for examinations and injections and performing routine screening tests.
- Escort patients to exam rooms and prepare them for office visit.
- Record patient interview, history and chief complaint.
- Document in EMR all medication prescriptions, physical therapy orders, diagnostic testing orders, and others in accordance with physician's authorizations.
- Provide patient education with regards to office policies, medications, management of diseased, home treatments and special diets using appropriate medical terminology.
- Respond to patient phone calls and assist with their needs.
- Calling prescriptions to the pharmacy for the physician.
- Following appropriate legal and ethical professional conduct.
- Acquire data from patients for studies in which they may be enrolled
- Maintain supplies, equipment, stocking, and sterilizing instruments ensuring work cores and patient rooms are presentable.
- Disposing of biohazard waste according to OSHA standards.
- Practicing OSHA safety standards.
- Skills/Qualifications/Behaviors: High school diploma required, college degree preferred, possess superior customer service skill, ability to work as part of a team, ability to multi-task, and positive disposition

Hours are Monday through Friday, 8am-5/5:30pm

Excellent hours, full benefits, must be able to commit to two years.

Pay \$16 an hour

## OPPORTUNITIES cont.

### **Mount Desert Island Biological Laboratory:**

#### **NSF Research Experience for Undergraduates at MDIBL**

Website: <http://www.mdibl.org>

REU Fellows are undergraduates who work in residential research programs at MDI Biological Laboratory and are supported by the National Science Foundation (NSF). Each student is associated with a specific research project, where s/he works closely with the faculty and other researchers. Deadline March 4, 2016

### **Montana Space Grant Consortium: Scholarships**

<http://spacegrant.montana.edu>

<http://spacegrant.montana.edu/scholarshipFellowship.html>

The Montana Space Grant Consortium offers undergraduate scholarships for the academic year. Awards are made on a competitive basis to students enrolled in fields of study relevant to NASA's mission. These fields include (but are not necessarily limited to): the Biological and Life Sciences, Chemistry, Geological and Planetary Sciences, Physics and Astronomy, Mathematics, Mechanical Engineering, Chemical Engineering, Electrical Engineering, Computer Engineering, Computer Sciences, and Civil Engineering. Deadline(s): April 1, 2016 and October 1, 2016

### **Lyford Cay Foundation: Undergraduate Academic Scholarships**

<http://www.lyfordcayfoundation.org>

The sponsor provides funding for undergraduate academic scholarships. Deadline: April 15, 2016.

### **Lyford Cay Foundation: Graduate Academic Scholarships**

<http://www.lyfordcayfoundation.org/graduate.php>

The sponsor provides funding for graduate academic scholarships. Deadline: April 15, 2016.

### **Sea Grant Education Internships**

[http://marex.uga.edu/sea\\_grant\\_internship/](http://marex.uga.edu/sea_grant_internship/)

The University of Georgia's Marine Education Center and Aquarium offers annual post-baccalaureate internships in marine education. Interns train and work for 50 weeks at the Marine Education Center and Aquarium, near Savannah, Georgia. Four interns will be selected for the period of September 2016 to August 2017. On-site housing is required. Deadline March 15, 2016.

### **Venter (J. Craig) Institute: Summer Internship Program**

<http://www.jcvi.org/cms/education/internship-program/>

The J. Craig Venter Institute (JCVI) summer internship provides opportunities to inspire young scientists and other science professionals to work in all areas of the Institute. Interns are assigned to a mentor who is a member of the Institute's faculty or senior staff. The project is funded by the National Science Foundation to provide public informatics resources to plant scientists who use the *Arabidopsis* genome data to inform their exploration of biology. The J. Craig Venter Institute Summer Internship Program is a full-time (40-hour work week) employment program. Deadline March 15, 2016.

There are two locations for 2016 Summer Internships:

La Jolla, CA -- High school and College/Graduate -- June 20 – August 19

Rockville, MD -- High school -- June 20 – August 19

College/Graduate -- May 31 – August 19

## CONFERENCES and TRAVEL

**Hunter (Brett) Mann, Emily Rowe and Dr. Dana Price** participated in the Maryland Coastal Bays Program Science and Technical Advisory Committee, Cambridge, MD, January 2016. Brett presented his graduate research titled: “Ant Species Diversity of E. A. Vaughn Wildlife Management Area”.

## PUBLICATIONS

### **Dr. Philip Anderson Published in Endocrinology.**

Grabowska M.M., Kelly S.M., Reese A.L., Cates J.M., Case T.C., Zhang J., DeGraff D.J., Strand D.W., Miller N.L., Clark P.E., Hayward S.W., Gronostajski R.M., **Anderson P.D.**, Matusik R.J. **2015** Nfib regulates transcriptional networks that control the development of prostatic hyperplasia. *Endocrinology*. <http://www.ncbi.nlm.nih.gov/pubmed/26677878>

### **Simone Nemes (Graduated May 2013) and Dr. Price**

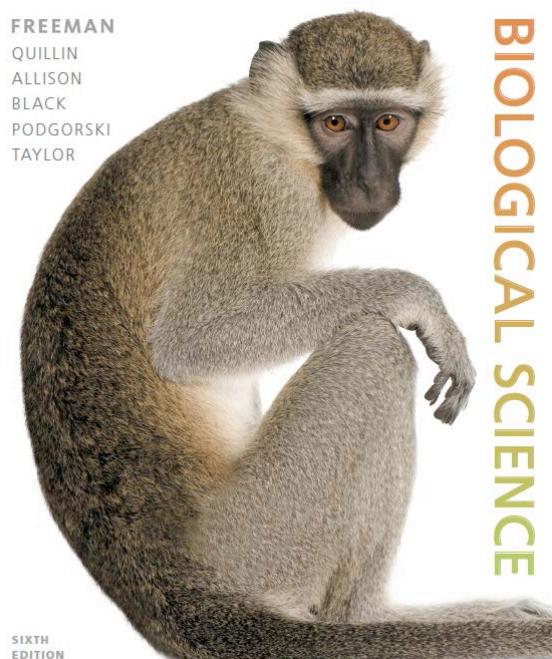
**Nemes, S.N. and D.L. Price. 2015.** Illustrated Keys to the Scarabaeinae (Coleoptera: Scarabaeidae) of Maryland. *Northeastern Naturalist* 22(2): 318-344.

<http://www.bioone.org/doi/full/10.1656/045.022.0208>

### **2015 Johns Hopkins University Summer REU student Robert Phillips (SU Junior) was an author on a recent publication (<http://biorxiv.org/content/early/2016/01/29/038224>).**

Abhinav Nellore, Andrew E. Ja, Jean-Philippe Fortin, Jose Alquicira-Hernandez, Leonardo Collado-Torres, Siruo Wang, **Robert A. Phillips III**, Nishika Karbhari, Kasper D. Hansen, Ben Langmead, and Jerey T. Leek. 2016. Human splicing diversity across the Sequence Read Archive.

**Kim Quillin** is lead author on the sixth edition of the textbook Biological Science, released in January.



## ALUMNI NEWS

**Hal Erickson** (2015 graduate) is working at Sysmex Inostics in Baltimore as a clinical lab technologist. The lab runs tests on patient blood samples to detect cancer genes.

**Rebecca Mastrippolito** (2012 graduate) of the dual degree program of Biology and Marine/Environmental science. Rebecca is now a graduate student at Towson University. She is going for her Master's in Environmental Science concentrating in Biological Resource Management.

**Joseph “Tony” Tracey** was accepted to the Medical University of South Carolina. Tony did his BS (2011 graduate) in Biology and MS in Applied Biology (2013 graduate) here at SU. He went on to do a postbac at NIH and then he worked in the department of orthopedic surgery at UMaryland School of Medicine.

**Editor:** Dana Price

**Coeditor:** Dr. Judith Stribling

If you have announcements to add or general comments regarding the Newsletter, please email [dlprice@salisbury.edu](mailto:dlprice@salisbury.edu).